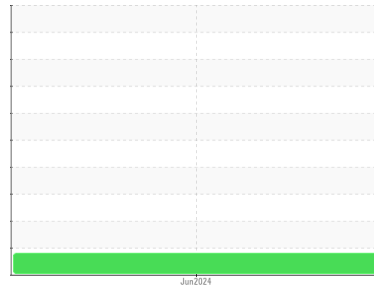




OIL ANALYSIS REPORT

Area
MINING
 Machine Id
ME-06 CATERPILLAR 745C TFK01686
 Component
Center Left Final Drive
 Fluid
SHELL Spirax S4 CX 30 (--- GAL)

Sample Rating Trend



WEAR



DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0944200	---	---
Sample Date	Client Info		14 Jun 2024	---	---
Machine Age	hrs	Client Info	16214	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	37	---
Chromium	ppm	ASTM D5185m	>10	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	---
Titanium	ppm	ASTM D5185m	>15	<1	---
Silver	ppm	ASTM D5185m	>2	0	---
Aluminum	ppm	ASTM D5185m	>75	5	---
Lead	ppm	ASTM D5185m	>10	0	---
Copper	ppm	ASTM D5185m	>75	▲ 119	---
Tin	ppm	ASTM D5185m	>8	3	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		45	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		<1	---
Manganese	ppm	ASTM D5185m		<1	---
Magnesium	ppm	ASTM D5185m		27	---
Calcium	ppm	ASTM D5185m		3276	---
Phosphorus	ppm	ASTM D5185m		1066	---
Zinc	ppm	ASTM D5185m		1181	---
Sulfur	ppm	ASTM D5185m		5994	---

CONTAMINANTS

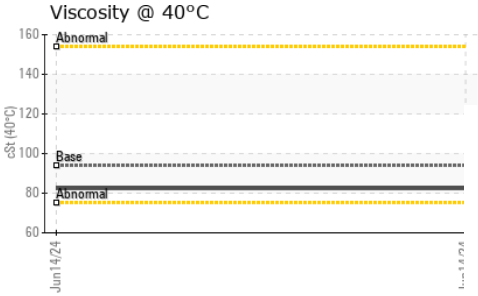
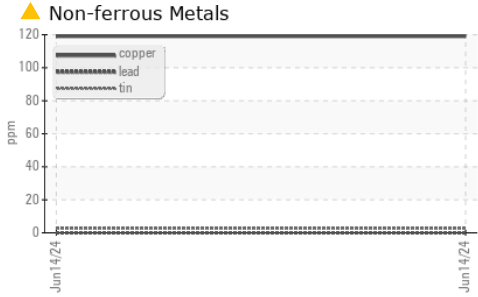
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	17	---
Sodium	ppm	ASTM D5185m		0	---
Potassium	ppm	ASTM D5185m	>20	2	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---



OIL ANALYSIS REPORT

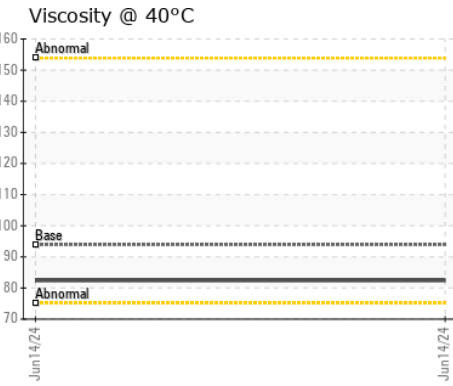
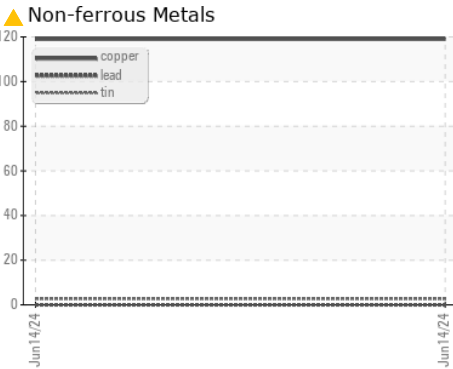
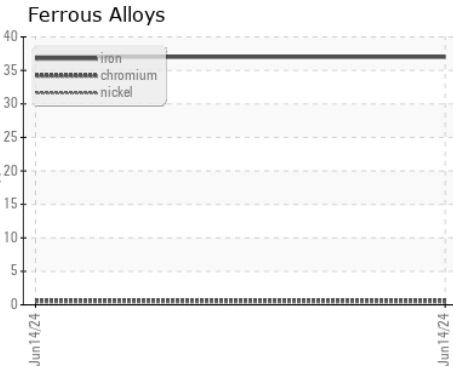


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 93.9	82.4	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color	no image	no image	no image
Bottom	no image	no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0944200 **Received** : 20 Jun 2024
Lab Number : **06216129** **Tested** : 21 Jun 2024
Unique Number : 11088993 **Diagnosed** : 23 Jun 2024 - Don Baldrige
Test Package : CONST

COVIA - OREGON - 004
 1446 DEVILS BACKBONE ROAD
 OREGON, IL
 US 61061-0156
 Contact: Brian Bunnell
 brian.bunnell@coviacorp.com
 T: (815)677-8700
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)